Solutions: Random Variables Checkpoint

These questions refer to the following information:

Suppose the scores on an exam are normally distributed with mean μ = 75 points, and standard deviation σ = 8 points.

Question 1

The instructor wanted to "pass" anyone who scored above 69. What proportion of exams will have passing scores?

(a) .25

(b) .75

(c) .2266

(d) .7734

(e) -.75

Correct answer: (d)

Question 2

What is the exam score for an exam whose z-score is 1.25?

(a) 65

(b) 75

(c) 85

(d) .8944

(e) .1056

Correct answer: (c)

Question 3

Suppose that the top 4% of the exams will be given an A⁺. In order to be given an A⁺, an exam must earn at least what score?

(a) 61

(b) 73

(c) .516

(d) 77

(e) 89

Correct answer: (e)

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